

Rope, Cordage, and Twine Mills: 2002

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2002 Economic Census

Manufacturing

Industry Series



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-- Not applicable for this report.

Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year ¹	Com- panies ²	All estab- lish- ments ³	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
			Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
314991, Rope, cordage, and twine mills . . . 2002..	153	166	4 855	146 593	3 567	7 608	77 227	355 635	397 995	749 802	'22 313
2001..	N	N	5 787	155 731	4 232	8 214	86 986	361 376	453 717	809 338	14 958
2000..	N	N	6 204	170 455	4 649	9 434	102 545	385 372	445 572	820 912	15 738
1999..	N	N	6 550	165 534	5 018	10 085	99 106	392 302	420 948	804 228	20 707
1998..	N	N	6 310	162 137	4 746	9 687	95 352	344 222	403 776	765 539	16 156
1997..	189	201	6 417	159 268	4 866	9 711	94 903	377 878	411 187	777 091	25 018

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	All establishments ²			All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
	E ¹	Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
314991, Rope, cordage, and twine mills												
United States	1	166	60	4 855	146 593	3 567	7 608	77 227	355 635	397 995	749 802	'22 313
California	3	13	5	271	8 948	191	693	5 572	18 101	18 632	36 985	'346
Maine	7	7	3	145	4 056	117	225	2 920	10 504	8 461	18 539	'248
North Carolina	2	9	4	417	9 395	369	758	6 737	21 153	24 284	44 752	'3 322
Pennsylvania	—	9	4	373	14 473	196	409	5 072	51 695	73 625	124 016	'700
Texas	1	17	4	330	9 457	266	517	5 717	19 062	18 740	37 614	'920
Washington	—	10	5	271	9 378	188	380	3 885	19 950	25 289	44 632	'2 068

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
314991, Rope, cordage, and twine mills	
Companies ¹	number.. 153
All establishments ²	number.. 166
Establishments with 1 to 19 employees	number.. 106
Establishments with 20 to 99 employees	number.. 49
Establishments with 100 employees or more	number.. 11
All employees ³	number.. 4 855
Total compensation	\$1,000.. 174 574
Annual payroll	\$1,000.. 146 593
Total fringe benefits	\$1,000.. 27 981
Production workers, average for year	number.. 3 567
Production workers on March 12	number.. 3 587
Production workers on May 12	number.. 3 622
Production workers on August 12	number.. 3 596
Production workers on November 12	number.. 3 450
Production worker hours	1,000.. 7 608
Production worker wages	\$1,000.. 77 227
Total cost of materials	\$1,000.. 397 995
Materials, parts, containers, packaging, etc., used	\$1,000.. 309 133
Resales	\$1,000.. 76 607
Purchased fuels	\$1,000.. 1 344
Purchased electricity	\$1,000.. 8 222
Contract work	\$1,000.. 2 689
Quantity of electricity purchased for heat and power	1,000 kWh.. 136 499
Quantity of electricity generated less sold for heat and power	1,000 kWh.. -
Total value of shipments	\$1,000.. 749 802
Primary products value of shipments	\$1,000.. 574 181
Secondary products value of shipments	\$1,000.. 80 623
Total miscellaneous receipts	\$1,000.. 94 998
Value of resales	\$1,000.. 94 481
Contract receipts	\$1,000.. D
Other miscellaneous receipts	\$1,000.. D
Primary products specialization ratio	percent.. 88
Value of primary products shipments made in all industries	\$1,000.. 601 902
Value of primary products shipments made in this industry	\$1,000.. 574 181
Value of primary products shipments made in other industries	\$1,000.. 27 721
Coverage ratio	percent.. 95
Value added	\$1,000.. 355 635
Total inventories, beginning of year	\$1,000.. 119 980
Finished goods inventories	\$1,000.. 74 589
Work-in-process inventories	\$1,000.. 17 461
Materials and supplies inventories	\$1,000.. 27 930
Total inventories, end of year	\$1,000.. 127 740
Finished goods inventories	\$1,000.. 75 518
Work-in-process inventories	\$1,000.. 20 360
Materials and supplies inventories	\$1,000.. 31 862
Gross value of depreciable assets (acquisition costs) at beginning of year	\$1,000.. '280 551
Total capital expenditures (new and used)	\$1,000.. '22 313
Buildings and other structures (new and used)	\$1,000.. '2 773
Machinery and equipment (new and used)	\$1,000.. '19 540
Automobiles, trucks, etc., for highway use	\$1,000.. '326
Computers and peripheral data processing equipment	\$1,000.. '2 885
All other expenditures for machinery and equipment	\$1,000.. '16 329
Total retirements	\$1,000.. '10 996
Gross value of depreciable assets at end of year	\$1,000.. '291 868
Depreciation charges during year	\$1,000.. '15 206
Total rental payments	\$1,000.. 9 993
Buildings and other structures	\$1,000.. 6 947
Machinery and equipment	\$1,000.. 3 046
Total other expenses ⁴	\$1,000.. 56 509
Response coverage ratio ⁵	percent.. 85
Repair and maintenance services of buildings and/or machinery ⁴	\$1,000.. 3 547
Communications services ⁴	\$1,000.. 1 909
Legal services ⁴	\$1,000.. 1 492
Accounting, auditing, and bookkeeping services ⁴	\$1,000.. 962
Advertising and promotional services ⁴	\$1,000.. 22 300
Expensed computer hardware and supplies and purchased computer services ⁴	\$1,000.. 1 647
Refuse removal (including hazardous waste) services ⁴	\$1,000.. 352
Management consulting and administrative services ⁴	\$1,000.. 583
Taxes and license fees ⁴	\$1,000.. 1 991
All other expenses ⁴	\$1,000.. 21 726

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Based on 2002 Annual Survey of Manufactures (ASM) sample data.

⁵A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class	E ¹	All establishments ²	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
314991, Rope, cordage, and twine mills											
All establishments	1	166	4 855	146 593	3 567	7 608	77 227	355 635	397 995	749 802	'22 313
Establishments with—											
1 to 4 employees	9	57	c	D	D	D	D	D	D	D	D
5 to 9 employees	7	24	151	4 811	117	269	3 007	10 293	10 815	21 172	'1 054
10 to 19 employees	2	25	348	9 857	269	639	5 913	19 267	21 170	40 702	'1 112
20 to 49 employees	4	34	1 076	31 413	729	1 428	16 731	72 889	69 520	139 830	'2 324
50 to 99 employees	1	15	1 090	33 818	826	2 182	20 095	72 288	81 106	156 569	'2 073
100 to 249 employees	—	10	1 575	42 051	1 240	2 332	22 565	104 755	136 784	231 213	'12 383
250 to 499 employees	—	1	e	D	D	D	D	D	D	D	D
500 to 999 employees	—	—	—	—	—	—	—	—	—	—	—
1,000 to 2,499 employees	—	—	—	—	—	—	—	—	—	—	—
2,500 employees or more	—	—	—	—	—	—	—	—	—	—	—
Administrative records ⁴	9	59	176	5 275	144	291	3 323	11 777	12 127	23 899	'430

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All establishments ¹	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				
314991	Rope, cordage, and twine mills	166	4 855	146 593	3 567	7 608	77 227	355 635	397 995	749 802	'22 313
3149911	Cordage and twine, hard fiber	18	447	13 670	272	487	5 606	29 367	29 768	58 845	'2 514
3149913	Cordage and twine, soft fiber (except cotton)	58	3 592	111 686	2 622	5 745	58 034	282 955	324 375	606 592	'17 576
3149915	Cotton cordage and twine	8	411	9 586	342	660	6 073	15 818	14 080	27 033	'866

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6a. Products Statistics: 2002 and 1997

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
314991	Rope, cordage, and twine mills	2002.. N 1997.. N	X X	X X	601 902 695 624
3149911	Cordage and twine, hard fiber	2002.. N 1997.. N	X X	X X	62 734 49 323
31499111	Cordage and twine, hard fiber	2002.. N 1997.. N	X X	X X	62 734 42 847
3149911111	Hard fiber cordage rope and cable (including products of 3 strands or more) each strand composed of 2 yarns or more	2002.. 22 1997.. 9	X X	X S	41 385 20 684
3149911121	Hard fiber twine (including products laid or twisted, but not stranded, and twine of hard fiber and paper)	2002.. 12 1997.. 6	X X	X X	21 349 22 163
3149911Y	Cordage and twine, hard fiber, nsk	2002.. N 1997.. N	X X	X X	N 6 476
3149911YVV	Cordage and twine, hard fiber, nsk	2002.. N 1997.. N	X X	X X	N 6 476
3149913	Cordage and twine, soft fiber (except cotton)	2002.. N 1997.. N	X X	X X	412 234 503 547
31499131	Fishing line and fish netting, commercial and recreational, manmade fiber	2002.. N 1997.. N	X X	X X	80 801 78 003
3149913112	Fishing line, commercial and recreational	2002.. 8 1997.. N	X N	X N	D N
3149913132	Fish nets and fish netting, commercial and recreational	2002.. 11 1997.. N	X N	X N	D N
31499132	Rope three-sixteenths inches in diameter and larger, manmade fiber	2002.. N 1997.. N	X X	X X	126 990 201 918
3149913251	Rope three-sixteenths inches in diameter and larger, manmade fiber	2002.. 22 1997.. 28	X X	X X	126 990 201 918
31499133	Industrial and agriculture twine, less than three-sixteenths inches in diameter, manmade fiber	2002.. N 1997.. N	X X	X X	80 463 90 820
3149913361	Industrial and agriculture twine, less than three-sixteenths inches in diameter, manmade fiber	2002.. 7 1997.. 12	X X	X X	80 463 90 820
31499134	All other cordage and twine, manmade fiber	2002.. N 1997.. N	X X	X X	96 587 100 832
3149913471	All other cordage and twine, manmade fiber	2002.. 23 1997.. 29	X X	X S	96 587 100 832
31499135	Cordage and twine, soft fiber (except cotton and manmade, including hemp, jute, and paper)	2002.. N 1997.. N	X X	X X	24 553 D
3149913581	Cordage and twine, soft fiber (except cotton and manmade, including hemp, jute, and paper)	2002.. 3 1997.. 4	X X	X X	24 553 D
3149913Y	Cordage and twine, soft fiber (except cotton), nsk	2002.. N 1997.. N	X X	X X	2 840 D
3149913YVV	Cordage and twine, soft fiber (except cotton), nsk	2002.. N 1997.. N	X X	X X	2 840 D
3149915	Cotton cordage and twine	2002.. N 1997.. N	X X	X X	51 150 59 002
31499151	Cotton cordage and twine	2002.. N 1997.. N	X X	X X	51 150 55 525
3149915111	Cotton braided cord regardless of size	2002.. 13 1997.. 7	X X	X X	26 280 27 874
3149915121	Cotton wrapping, seine, and other twine	2002.. 5 1997.. 7	X X	X X	12 862 13 604
3149915131	All other cotton cordage and twine	2002.. 8 1997.. 9	X X	X X	12 008 14 047
3149915Y	Cotton cordage and twine, nsk	2002.. N 1997.. N	X X	X X	N 3 477
3149915YVV	Cotton cordage and twine, nsk	2002.. N 1997.. N	X X	X X	N 3 477
314991W	Rope, cordage, and twine mills, nsk, total	2002.. N 1997.. N	X X	X X	75 784 83 752
314991WY	Rope, cordage, and twine mills, nsk, total	2002.. N 1997.. N	X X	X X	75 784 83 752
314991WYWW	Rope, cordage, and twine mills, nsk, for nonadministrative-record establishments	2002.. N 1997.. N	X X	X X	53 792 48 689
314991WYWY	Rope, cordage, and twine mills, nsk, for administrative-record establishments	2002.. N 1997.. N	X X	X X	21 992 35 063

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6b. Product Class Shipments for Selected States: 2002 and 1997

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3149911	Cordage and twine, hard fiber	
	United States..... 2002..	62 734
	..... 1997..	49 323
	Texas 2002..	8 620
	..... 1997..	N
	Washington 2002..	4 093
	..... 1997..	N
3149913	Cordage and twine, soft fiber (except cotton)	
	United States..... 2002..	412 234
	..... 1997..	503 547
	California 2002..	20 042
	..... 1997..	13 941
	Maine 2002..	11 257
	..... 1997..	N
	Pennsylvania 2002..	59 949
	..... 1997..	63 312
	Washington 2002..	30 802
	..... 1997..	50 275
3149915	Cotton cordage and twine	
	United States..... 2002..	51 150
	..... 1997..	59 002

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
314991	Rope, cordage, and twine mills		
00900001	Total materials .....2002..	X	309 133
	.....1997..	X	334 748
32520003	Manmade fibers, staple, and tow .....2002..	X	86 431
	.....1997..	X	53 093
31311003	Yarn, all fibers .....2002..	X	87 579
	.....1997..	X	85 476
31320003	Textile fabrics .....2002..	X	1 974
	.....1997..	X	N
32521115	Plastics resins (excluding vinyl) consumed in the form of granules, pellets, powders, liquids, etc. ....2002..	X	58 015
	.....1997..	X	51 354
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	39 366
	.....1997..	X	106 373
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	35 768
	.....1997..	X	38 452

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.